

Fractions And Decimals Worksheets Answer Key PDF

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Part 1: Foundational Knowledge

What is the denominator in the fraction $\frac{5}{8}$?

undefined. 5

undefined. 8 ✓

undefined. 13

undefined. 3

The denominator is the bottom number of a fraction, which indicates how many equal parts the whole is divided into.

Which of the following are proper fractions?

undefined. $\frac{7}{9}$ ✓

undefined. $\frac{11}{10}$

undefined. $\frac{3}{4}$ ✓

undefined. $\frac{5}{5}$

Proper fractions are those where the numerator is less than the denominator.

Explain the difference between a terminating decimal and a repeating decimal.

A terminating decimal has a finite number of digits after the decimal point, while a repeating decimal has one or more digits that repeat infinitely.

List the components of a fraction and define each.

1. What is the numerator?

The numerator is the top number in a fraction.

2. What is the denominator?

The denominator is the bottom number in a fraction.

A fraction consists of a numerator (the top number) and a denominator (the bottom number).

Which of the following fractions is equivalent to 0.25?

undefined. $\frac{1}{4}$ ✓

undefined. $\frac{1}{2}$

undefined. $\frac{3}{4}$

undefined. $\frac{2}{5}$

0.25 is equivalent to the fraction $\frac{1}{4}$.

Part 2: Application and Analysis

If you have a pizza cut into 8 slices and you eat 3 slices, what fraction of the pizza have you eaten?

undefined. $\frac{3}{8}$ ✓

undefined. $\frac{5}{8}$

undefined. $\frac{1}{2}$

undefined. $\frac{3}{5}$

You have eaten 3 out of 8 slices, which is represented as the fraction $\frac{3}{8}$.

Which of the following decimals can be converted into the fraction $\frac{3}{5}$?

undefined. 0.6 ✓

undefined. 0.75

undefined. 0.8

undefined. 0.5

The decimal 0.6 can be converted into the fraction $\frac{3}{5}$.

A recipe requires $\frac{2}{3}$ cup of sugar. If you want to make half of the recipe, how much sugar will you need? Show your work.

You will need $\frac{1}{3}$ cup of sugar, which is half of $\frac{2}{3}$.

Which operation would you use to find the reciprocal of a fraction?

undefined. Addition

undefined. Subtraction

undefined. Multiplication ✓

undefined. Division

To find the reciprocal of a fraction, you use multiplication by the inverse.

Identify the correct steps to add the fractions $\frac{1}{4}$ and $\frac{3}{8}$.

undefined. Find a common denominator ✓

undefined. Add the numerators ✓

undefined. Simplify the result ✓

undefined. Multiply the fractions

The correct steps include finding a common denominator, adding the numerators, and simplifying the result.

Analyze the process of converting the repeating decimal $0.666\dots$ into a fraction. Explain each step.

To convert $0.666\dots$ into a fraction, you can set it equal to x , multiply by 10, and then solve for x .

Part 3: Evaluation and Creation

Which of the following best evaluates the accuracy of converting 0.75 to a fraction?

undefined. $\frac{1}{2}$

undefined. $\frac{3}{4}$ ✓

undefined. $\frac{2}{3}$

undefined. $\frac{4}{5}$

The decimal 0.75 is accurately converted to the fraction $\frac{3}{4}$.

Evaluate the following statements about fractions and decimals:

undefined. Every fraction can be expressed as a decimal. ✓

undefined. Every decimal can be expressed as a fraction. ✓

undefined. Some fractions cannot be simplified.

undefined. Some decimals are irrational numbers. ✓

All statements are true except for the one about some fractions not being able to be simplified.

Create a real-world problem involving fractions and decimals, and solve it. Explain your reasoning and steps.

A real-world problem could involve budgeting or cooking, where fractions and decimals are used to calculate amounts.